

C2949-PCT.txt  
SEQUENCE LISTING

<110> Collen Research Foundation VZW

Jacquemin, Marc

Saint-Remy, Jean-Marie

<120> Variable antibodies

<130> C2949-PCT

<150> GB 0319118.6

<151> 2003-08-14

<150> GB 0319345.5

<151> 2003-08-18

<160> 32

<170> PatentIn version 3.1

<210> 1

<211> 496

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(495)

<223> KRIX-1 heavy chain variable region

<220>

<221> misc\_feature

<222> (1)..(57)

<223> nucleotide sequence encoding the leader sequence

## C2949-PCT.txt

<220>  
<221> misc\_feature  
<222> (133)..(192)  
<223> nucleotide sequence encoding CDR1

<220>  
<221> misc\_feature  
<222> (235)..(285)  
<223> nucleotide sequence encoding CDR2

<220>  
<221> misc\_feature  
<222> (382)..(435)  
<223> nucleotide sequence encoding CDR3

<400>	1		
atg gac tgg acc tgg agg atc ctc ttc ttg gtg gca gca gcc aca gga			48
Met Asp Trp Thr Trp Arg Ile Leu Phe Leu Val Ala Ala Ala Thr Gly			
1 5 10 15			
gcc cac tcc cag gtg caa ctg gtg caa tct ggg gct gag gtg aag aag			96
Ala His Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys			
20 25 30			
cct ggg gcc tca gtg aag gtc tcc tgc aag acc tct gga tac aac ttc			144
Pro Gly Ala Ser Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Asn Phe			
35 40 45			
acc ggc tac tct gct tct gga cat atc ttc acc gcc tac tct gtg cac			192
Thr Gly Tyr Ser Ala Ser Gly His Ile Phe Thr Ala Tyr Ser Val His			
50 55 60			
tgg gtg cga cag gcc cct gga caa ggg ctt gag tgg atg gga agg atc			240
Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Arg Ile			
65 70 75 80			
aac cct aac agt ggt gcc aca gac tat gca cat aaa ttt cag ggc agg			288
Asn Pro Asn Ser Gly Ala Thr Asp Tyr Ala His Lys Phe Gln Gly Arg			
85 90 95			
gtc acc atg tcc agg gac acg tcc atc agc aca gcc tac atg gaa ctg			336
Val Thr Met Ser Arg Asp Thr Ser Ile Ser Thr Ala Tyr Met Glu Leu			
100 105 110			
agc agg ctg aca tct gac gac acg gcc atg tat tac tgt gcg aga gcc			384
Ser Arg Leu Thr Ser Asp Asp Thr Ala Met Tyr Tyr Cys Ala Arg Ala			
115 120 125			
gac aac tat ttc gat att gtg act ggc tat act tct cat tac ttt gac			432
Asp Asn Tyr Phe Asp Ile Val Thr Gly Tyr Thr Ser His Tyr Phe Asp			
130 135 140			

## C2949-PCT.txt

tac tgg ggc cgg gga acc ctg gtc acc gtc tcc tca gcc tcc acc aag	480
Tyr Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys	
145 150 155 160	
ggc cca tcg gtc ttc c	496
Gly Pro Ser Val Phe	
165	

&lt;210&gt; 2

&lt;211&gt; 165

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)..(57)

&lt;223&gt; nucleotide sequence encoding the leader sequence

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (133)..(192)

&lt;223&gt; nucleotide sequence encoding CDR1

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (235)..(285)

&lt;223&gt; nucleotide sequence encoding CDR2

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (382)..(435)

&lt;223&gt; nucleotide sequence encoding CDR3

&lt;400&gt; 2

Met Asp Trp Thr Trp Arg Ile Leu Phe Leu Val Ala Ala Ala Thr Gly	
1 5 10 15	

Ala His Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys	
20 25 30	

Pro Gly Ala Ser Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Asn Phe	
35 40 45	

Thr Gly Tyr Ser Ala Ser Gly His Ile Phe Thr Ala Tyr Ser Val His	
50 55 60	

## C2949-PCT.txt

Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Arg Ile  
65 70 75 80

Asn Pro Asn Ser Gly Ala Thr Asp Tyr Ala His Lys Phe Gln Gly Arg  
85 90 95

Val Thr Met Ser Arg Asp Thr Ser Ile Ser Thr Ala Tyr Met Glu Leu  
100 105 110

Ser Arg Leu Thr Ser Asp Asp Thr Ala Met Tyr Tyr Cys Ala Arg Ala  
115 120 125

Asp Asn Tyr Phe Asp Ile Val Thr Gly Tyr Thr Ser His Tyr Phe Asp  
130 135 140

Tyr Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys  
145 150 155 160

Gly Pro Ser Val Phe  
165

<210> 3

<211> 429

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(429)

<223> KRIX-1 light chain variable region

<220>

<221> misc\_feature

<222> (130)..(164)

<223> nucleotide sequence encoding CDR1

<220>

<221> misc\_feature

<222> (211)..(231)

<223> nucleotide sequence encoding CDR2

## C2949-PCT.txt

<220>  
<221> misc\_feature  
<222> (328)..(357)  
<223> nucleotide sequence encoding CDR3

<220>  
<221> misc\_feature  
<222> (1)..(60)  
<223> nucleotide sequence encoding leader peptide

<400>	3	
atg gaa acc cca gct cag ctt ctc ttc ctc ctg cta ctc tgg ctc cca		48
Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Trp Leu Pro		
1 5 10 15		
gat acc acc gga gaa att gtg ttg acg cag tct cca ggc acc ctg tct		96
Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser		
20 25 30		
ttg tct cca ggg gaa aga gcc acc ctc tcc tgc agg gcc agt cag agt		144
Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser		
35 40 45		
gtt gcc agc gcc tac tta gcc tgg tac cag caa aaa cct ggc cag gct		192
Val Ala Ser Ala Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala		
50 55 60		
ccc agg ctc ctc atc tat ggt gca tcc agt agg gcc acc gac atc cca		240
Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Asp Ile Pro		
65 70 75 80		
cac agg ttc agt ggc agt ggg tct ggg aca gac ttc act ctc acc atc		288
His Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile		
85 90 95		
agc aga ctg gag cct gaa gat ttt gca gtc tac tac tgt cag caa tat		336
Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr		
100 105 110		
ggt acc tca gcc tta ctc act ttc ggc gga ggg acc aag gtc gag atc		384
Gly Thr Ser Ala Leu Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile		
115 120 125		
aaa cga act gtg gct gca cca tct gtc ttc atc ttc ccg cca tct		429
Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser		
130 135 140		

<210> 4  
<211> 143  
<212> PRT  
<213> Homo sapiens

## C2949-PCT.txt

<220>  
<221> misc\_feature  
<222> (130)..(164)  
<223> nucleotide sequence encoding CDR1  
<220>  
<221> misc\_feature  
<222> (211)..(231)  
<223> nucleotide sequence encoding CDR2  
<220>  
<221> misc\_feature  
<222> (328)..(357)  
<223> nucleotide sequence encoding CDR3  
<220>  
<221> misc\_feature  
<222> (1)..(60)  
<223> nucleotide sequence encoding leader peptide  
<400> 4  
  
Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro  
1 5 10 15  
  
Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser  
20 25 30  
  
Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser  
35 40 45  
  
Val Ala Ser Ala Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala  
50 55 60  
  
Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Asp Ile Pro  
65 70 75 80  
  
His Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile  
85 90 95  
  
Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr  
100 105 110  
  
Gly Thr Ser Ala Leu Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile  
115 120 125

## C2949-PCT.txt

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser  
130 135 140

<210> 5

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Krix-1 heavy chain forward primer

<400> 5

cgggttaccc caccatggac tggacctgga ggatc 35

<210> 6

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Krix-1 heavy chain reverse primer

<400> 6

tatggccgac gtcgactcat ttacccggag acagggagag 40

<210> 7

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> Krix-1 light chain forward primer

<400> 7

cccaagttc caccatggaa accccagckc agct 34

<210> 8

<211> 36

<212> DNA

<213> Artificial Sequence

## C2949-PCT.txt

<220>

<223> Krix-1 light chain reverse primer

<400> 8  
aaacagcctc tagactaaca ctctccctg ttgaag 36

<210> 9

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Krix-1 forward mutagenic primer Asn47Gln

<400> 9  
cctgcaagac ctctggatac caattcacccg gctactctgc ttctgg 46

<210> 10

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Krix-1 reverse mutagenic primer Asn47Gln

<400> 10  
ccagaaggcag agtagccgtt gaattggat ccagaggct tgcagg 46

<210> 11

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Krix-1 forward mutagenic primer Thr49Ala

<400> 11  
cctctggata caacttcgct ggctactctg cttctgg 37

<210> 12

<211> 37

<212> DNA

## C2949-PCT.txt

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Krix-1 reverse mutagenic primer Thr49Ala

&lt;400&gt; 12

ccagaaggcag agtagccagc gaagttgtat ccagagg

37

&lt;210&gt; 13

&lt;211&gt; 46

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Krix-1 forward mutagenic primer Asn47Glu

&lt;400&gt; 13

cctgcaagac ctctggatac gagttcacccg gctactctgc ttctgg

46

&lt;210&gt; 14

&lt;211&gt; 46

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Krix-1 reverse mutagenic primer Asn47Glu

&lt;400&gt; 14

ccagaaggcag agtagccggt gaactcgat ccagaggct tgcagg

46

&lt;210&gt; 15

&lt;211&gt; 46

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Krix-1 forward mutagenic primer Asn47Asp

&lt;400&gt; 15

cctgcaagac ctctggatac gacttcacccg gctactctgc ttctgg

46

&lt;210&gt; 16

## C2949-PCT.txt

&lt;211&gt; 46

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Krix-1 reverse mutagenic primer Asn47Asp

&lt;400&gt; 16

ccagaaggag agtagccgtt gaagtcttat ccagaggctc tgcagg

46

&lt;210&gt; 17

&lt;211&gt; 45

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; scFv-KRIX-1VL forward primer

&lt;400&gt; 17

gtatctctcg agaaaagaga aattgtgttg acgcagtctc caggg

45

&lt;210&gt; 18

&lt;211&gt; 56

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; scFv-KRIX-1VL reverse primer

&lt;400&gt; 18

cgccagagcc acctccgcct gaaccgcctc cacctcgttt gatctccacc ttggtc

56

&lt;210&gt; 19

&lt;211&gt; 56

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; scFv-KRIX-1VH forward primer

&lt;400&gt; 19

caggcggagg tggctctggc ggtggcggat cgcaaggatmca gctggtgca g tctggg

56

## C2949-PCT.txt

<210> 20  
<211> 34  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> scFv-KRIX-1VH reverse primer  
<400> 20  
gatctctaga tgaggagacg gtgaccaggg ttcc

34

<210> 21  
<211> 45  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> scFv-KRIX-1VLVH with His(6)tag forward primer  
<400> 21  
gtatctctcg agaaaagaga aattgtgttg acgcagtctc caggc

45

<210> 22  
<211> 40  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> scFv-KRIX-1VLVH with His(6)tag reverse primer  
<400> 22  
catggtcgac tgaggagacg gtgaccaggg ttccccggcc

40

<210> 23  
<211> 46  
<212> DNA  
<213> Artificial Sequence

&lt;220&gt;

## C2949-PCT.txt

&lt;223&gt; scFv- Asn47Gln KRIX-1VLVH(His) forward primer

&lt;400&gt; 23

cctgcaagac ctctggatac caattcaccg gctactctgc ttctgg

46

&lt;210&gt; 24

&lt;211&gt; 46

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; scFv- Asn47Gln KRIX-1VLVH(His) reverse primer

&lt;400&gt; 24

ccagaaggcag agtagccgtt gaatttgtat ccagaggctc tgcagg

46

&lt;210&gt; 25

&lt;211&gt; 867

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; scFv- Asn47Gln KRIX-1VLVH(His)

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (1)..(867)

&lt;223&gt;

&lt;400&gt; 25

atg gaa acc cca gcg cag ctt ctc ttc ctc ctg cta ctc tgg ctc cca  
Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro  
1 5 10 15

48

gat acc acc gga gaa att gtg ttg acg cag tct cca ggc acc ctg tct  
Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser  
20 25 30

96

ttg tct cca ggg gaa aga gcc acc ctc tcc tgc agg gcc agt cag agt  
Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser  
35 40 45

144

gtt gcc agc gcc tac tta gcc tgg tac cag caa aaa cct ggc cag gct  
Val Ala Ser Ala Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala  
50 55 60

192

ccc agg ctc ctc atc tat ggt gca tcc agt agg gcc acc gac atc cca  
Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Asp Ile Pro  
65 70 75 80

240

## C2949-PCT.txt

cac agg ttc agt ggc agt ggg tct ggg aca gac ttc act ctc acc atc His Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile 85 90 95	288
agc aga ctg gag cct gaa gat ttt gca gtg tac tac tgt cag caa tat Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr 100 105 110	336
ggt acc tca gcc tta ctc act ttc ggc gga ggg acc aag gtg gag atc Gly Thr Ser Ala Leu Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile 115 120 125	384
aaa cga ggt gga ggc ggt tca ggc gga ggt ggc tct ggc ggt ggc gga Lys Arg Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Gly 130 135 140	432
tcg cag gta cag ctg gtg cag tct ggg gct gag gtg aag aag cct ggg Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly 145 150 155 160	480
gcc tca gtg aag gtc tcc tgc aag acc tct gga tac caa ttc acc ggc Ala Ser Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Gln Phe Thr Gly 165 170 175	528
tac tct gct tct gga cat atc ttc acc gcc tac tct gtg cac tgg gtg Tyr Ser Ala Ser Gly His Ile Phe Thr Ala Tyr Ser Val His Trp Val 180 185 190	576
cga cag gcc cct gga caa ggg ctt gag tgg atg gga agg atc aac cct Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Arg Ile Asn Pro 195 200 205	624
aac agt ggt gcc aca gac tat gca cat aaa ttt cag ggc agg gtc acc Asn Ser Gly Ala Thr Asp Tyr Ala His Lys Phe Gln Gly Arg Val Thr 210 215 220	672
atg tcc agg gac acg tcc atc agc aca gcc tac atg gaa ctg agc agg Met Ser Arg Asp Thr Ser Ile Ser Thr Ala Tyr Met Glu Leu Ser Arg 225 230 235 240	720
ctg aca tct gac gac aca gcc atg tat tac tgt gcg aga gcc gac aac Leu Thr Ser Asp Asp Thr Ala Met Tyr Tyr Cys Ala Arg Ala Asp Asn 245 250 255	768
tat ttc gat att gtg act ggc tat act tct cat tac ttt gac tac tgg Tyr Phe Asp Ile Val Thr Gly Tyr Thr Ser His Tyr Phe Asp Tyr Trp 260 265 270	816
ggc cgg gga acc ctg gtc acc gtc tcc tca cat cat cat cat cat cat Gly Arg Gly Thr Leu Val Thr Val Ser Ser His His His His His His 275 280 285	864
tga	867

&lt;210&gt; 26

&lt;211&gt; 288

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

## C2949-PCT.txt

&lt;223&gt; scFv- Asn47Gln KRIX-1VLVH(His)

&lt;400&gt; 26

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Trp Leu Pro  
1 5 10 15

Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser  
20 25 30

Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser  
35 40 45

Val Ala Ser Ala Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala  
50 55 60

Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Asp Ile Pro  
65 70 75 80

His Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile  
85 90 95

Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr  
100 105 110

Gly Thr Ser Ala Leu Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile  
115 120 125

Lys Arg Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly  
130 135 140

Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly  
145 150 155 160

Ala Ser Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Gln Phe Thr Gly  
165 170 175

Tyr Ser Ala Ser Gly His Ile Phe Thr Ala Tyr Ser Val His Trp Val  
180 185 190

Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Arg Ile Asn Pro  
195 200 205

Asn Ser Gly Ala Thr Asp Tyr Ala His Lys Phe Gln Gly Arg Val Thr  
210 215 220

Met Ser Arg Asp Thr Ser Ile Ser Thr Ala Tyr Met Glu Leu Ser Arg  
225 230 235 240

Leu Thr Ser Asp Asp Thr Ala Met Tyr Tyr Cys Ala Arg Ala Asp Asn  
245 250 255

## C2949-PCT.txt

Tyr Phe Asp Ile Val Thr Gly Tyr Thr Ser His Tyr Phe Asp Tyr Trp  
260 265 270

Gly Arg Gly Thr Leu Val Thr Val Ser Ser His His His His His His  
275 280 285

<210> 27

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> CHO-scFvKRIX-1VLVHQ(His) forward primer

<400> 27  
cccaagcttg cgcgcaccat ggaaacccca gckcagcttc 40

<210> 28

<211> 54

<212> DNA

<213> Artificial Sequence

<220>

<223> CHO-scFvKRIX-1VLVHQ(His) reverse primer

<400> 28  
ccggaattct caatgatgat gatgatgatg tgaggagacg gtgaccaggg ttcc 54

<210> 29

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(450)

<223> RHDS heavy chain variable region

<220>

<221> misc\_feature

c2949-PCT.txt

<222> (1)..(60)

<223> nucleotide sequence encoding the leader peptide

<220>

<221> misc\_feature

<222> (133)..(162)

<223> nucleotide sequence encoding CDR1

<220>

<221> misc\_feature

<222> (205)..(255)

<223> nucleotide sequence encoding CDR2

<220>

<221> misc\_feature

<222> (352)..(384)

<223> nucleotide sequence encoding CDR3

## C2949-PCT.txt

gtc tgg ggc caa ggg aca atg gtc acc gtc tct tca gcc tcc acc aag	432
Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys	
130 135 140	

ggc cca tcg gtc ttc ccc	450
Gly Pro Ser Val Phe Pro	
145 150	

<210> 30

<211> 150

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)..(60)

<223> nucleotide sequence encoding the leader peptide

<220>

<221> misc\_feature

<222> (133)..(162)

<223> nucleotide sequence encoding CDR1

<220>

<221> misc\_feature

<222> (205)..(255)

<223> nucleotide sequence encoding CDR2

<220>

<221> misc\_feature

<222> (352)..(384)

<223> nucleotide sequence encoding CDR3

<400> 30

Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Ala Gly	
1 5 10 15	

Val Gln Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys	
20 25 30	

Pro Gly Ser Ser Val Met Val Ser Cys Lys Ala Ser Gly Gly Thr Phe	
35 40 45	

Ser Ser Phe Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu	
50 55 60	

## C2949-PCT.txt

Glu Trp Val Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Thr Ala  
65 70 75 80

Arg Asn Phe Gln Asn Arg Val Thr Ile Thr Ala Asp Glu Phe Thr Ser  
85 90 95

Thr Ala Tyr Ile Arg Leu Arg Ser Leu Arg Ser Glu Asp Thr Ala Val  
100 105 110

Tyr Tyr Cys Val Gly Gly Arg Asp Ala Tyr Ser Phe Asp Gly Phe Asp  
115 120 125

Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys  
130 135 140

Gly Pro Ser Val Phe Pro  
145 150

<210> 31

<211> 420

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(420)

<223> RHD5 light chain variable region

<220>

<221> misc\_feature

<222> (1)..(60)

<223> nucleotide sequence encoding leader peptide

<220>

<221> misc\_feature

<222> (124)..(156)

<223> nucleotide sequence encoding CDR1

<220>



## C2949-PCT.txt

<221> misc\_feature  
<222> (1)..(60)  
<223> nucleotide sequence encoding leader peptide  
<220>  
<221> misc\_feature  
<222> (124)..(156)  
<223> nucleotide sequence encoding CDR1  
<220>  
<221> misc\_feature  
<222> (202)..(222)  
<223> nucleotide sequence encoding CDR2  
<220>  
<221> misc\_feature  
<222> (316)..(348)  
<223> nucleotide sequence encoding CDR3  
<400> 32

Met Ala Trp Ile Pro Leu Phe Leu Gly Val Leu Val Tyr Cys Thr Gly  
1 5 10 15

Ser Val Ala Ser Ser Gly Leu Thr Gln Pro His Ser Val Ser Val Ser  
20 25 30

Pro Gly Gln Thr Ala Asn Ile Thr Cys Ser Arg Asp Lys Leu Gly His  
35 40 45

Lys Phe Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Ala Leu  
50 55 60

Leu Ile Tyr Gln Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe  
65 70 75 80

Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr  
85 90 95

Gln Ala Met Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Asn Thr  
100 105 110

Thr Ala Val Phe Gly Gly Thr Lys Leu Thr Val Leu Ser Gln Pro  
115 120 125

Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser  
130 135 140